APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/440,213	11/15/1999	I-SHIN ANDY WANG	ST9-99-044	2670

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EXAMINER
YUAN, ALMARI ROMERO

ART UNIT	PAPER NUMBER
2176	

DATE MAILED: 01/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

-- *The MAILING DATE of this communication appears on the cover sheet with th   correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *26 December 2003*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
     closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-30* is/are pending in the application.

      4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-30* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

      Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

      Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

      a)☐ All b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
     application from the International Bureau (PCT Rule 17.2(a)).

      * See the attached detailed Office action for a list of the certified copies not received.

13)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application)
     since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.
     37 CFR 1.78.

      a) ☐ The translation of the foreign language provisional application has been received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific
     reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)   4)☐ Interview Summary (PTO-413) Paper No(s). _____.

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) .   5)☐ Notice of Informal Patent Application (PTO-152)

3)☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ . 6)☐ Other: .

DETAILED ACTION

1.   This action is responsive to communications: After Final Amendment filed on 12/26/03.

2.   The rejection of claims 1-9, 11-19, and 21-29 under 35 U.S.C. 103(a) as being

unpatentable over Davidson has been withdrawn in light of newly found art.

3.   The rejection of claims 10, 20, and 30 under 35 U.S.C. 103(a) as being unpatentable over

Davidson in view of Skinner has been withdrawn in light of newly found art.

4.   Claims 1-30 are pending in the case. Claims 1, 11, and 21 are independent claims.

Response to Amendment

5.   Applicant's request for reconsideration of the finality of the rejection of the last Office

action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

6.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7.   **Claims 1-9, 11-19, and 21-29 rejected under 35 U.S.C. 102(e) as being anticipated by**

Popp et al. (Pub. No. US 2002/0133637 A1 – filed on 08/1995).

Regarding independent claim 1, Popp discloses:

A method for generating an interface to elements in a document (on page 5, paragraphs 0069-

0070: teaches HTML elements are identified by the parser and an object tree is generated based

on the HTML elements identified), wherein the document defines a relationship of the elements

and at least one attribute for each element (on page 1, paragraph 0014: teaches each element can

have attributes that specify properties of the element), comprising

generating a class implementing methods for at least one element from information

provided on elements in the document (on page 2, paragraphs 0026-0027 and page 5, paragraphs

0069-0070: teaches class of objects are defined for each HTML element; an object tree is

generated based on the HTML elements identified) and a mapping indicating at least one element

in the document to map to a class (on page 2, paragraphs 0026-0027: teaches one-to-one

mapping between each HTML element and object classes), wherein the at least one indicated

element in the document for which the class is generated can be accessed and affected by the

methods implemented in the class (on page 2, paragraphs 0026-0027 and page 3, paragraph

0050: teaches each object class can include methods to manipulate the HTML element within an

HTML document).

Regarding dependent claim 2, Popp discloses:

wherein the mapping includes a class name for each indicated element (on page 2,

paragraph 0026: teaches mapping between object class and element and on pages 4-5 paragraph

0063: teaches name of object class are corresponded to the HTML element).

Regarding dependent claim 3, Popp discloses:

wherein the mapping indicates a data type for at least one attribute of the indicated

element (on page 1, paragraph 0014: teaches an element can have attributes that specify

properties of the element and on page 6, paragraph 0079: teaches the parser identifies type of

element; the object class that corresponds to the element type is identified).

Regarding dependent claim 4, Popp discloses:

wherein the relationship of the elements in the document are arranged in a hierarchical

relationship, and wherein the methods in the at least one class generated for the element allow a

user to directly access and affect the element (on page 2, paragraph 0024: teaches HTML is a

hierarchical language of elements and on page 2, paragraphs 0026: teaches each object class

mapped to the HTML element can include methods to manipulate the HTML element within an

HTML document).

Regarding dependent claim 5, Popp discloses:

further comprising accessing the at least one element in the document indicated in the

mapping using a hierarchical application program interface (API), wherein one class is generated

for each accessed element (on page 4, paragraph 0062: teaches application includes objects;

wherein the objects corresponds to the HTML elements that define a WWW page. Objects are

arranged in a tree structure that corresponds to the hierarchical structure of the HTML elements).

Regarding dependent claim 6, Popp discloses:

wherein the mapping indicates an interface to generate for the class, wherein the interface

defines methods to access the element for which the class is generated (on page 2, paragraphs

0026-0027: teaches methods to manipulate the HTML element within an HTML document and

on page 5, paragraphs 0069-0070: teaches HTML elements are identified by the parser and an

object tree is generated based on the HTML elements identified).

Regarding dependent claim 7, Popp discloses:

wherein the methods implemented in the class include at least one method that is a

member of the set of methods comprising: adding an instance of the element, inserting an

instance of the element at a location in the document with respect to other instances of the

element in the document, and removing an instance of the element from the document (on page

paragraph 0061 teaches an object class defines instance variables to store information associated

with the HTML element; on page 5, paragraph 0075: teaches for each element in the HTML

template, an instance of the corresponding object class is instantiated; on page 7, paragraph

0102: teaches the NSWform object class should be instantiated and inserted within the

SELECT_FORM group object).

Regarding dependent claim 8, Popp discloses:

further comprising defining extended attributes of at least one element and instantiating

the class for the at least one indicated element from the defined extended attributes (on page 5,

paragraphs 0075-0076: teaches element attribute information is stored in the object's instance

variables).

Regarding dependent claim 9, Popp discloses:

wherein the defined extended attributes define further methods for the class (on page 3,

paragraph 0050: teaches each object class can include methods to manipulate the HTML element

and on page 5, paragraph 0064: teaches an object class may have a method that varies the display

characteristics of the HTML element).

Regarding claims 11-19 and 21-29, the limitations of claims 11-19 and 21-29 are a system and an article of manufacture for processing the method of claims 1-9 and are rejected under the same rationale
.

8. **Claim 10, 20, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Popp as applied to claims 1-9, 11-19, and 21-29 above, and in view of Skinner et al. (USPN 6,085,198).**

Regarding dependent claims 10, 20, and 30, Popp discloses the invention substantially as claimed as described *supra*. However, Popp does not explicitly disclose "serializing defined extended attributes into memory, wherein the defined extended attributes are capable of being deserialized from the memory".

Skinner et al. (Skinner on co. 10, line 53 – col. 11, line 16: teaches serializing objects with attributes names and types and which can later be deserialized.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have provide a way to serialize objects with attribute names and types and also capable deserializing object, as taught by Skinner, incorporated into the object of Popp in order to provide a useful mechanism for object persistence and transmission.

Response to Arguments

9. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.
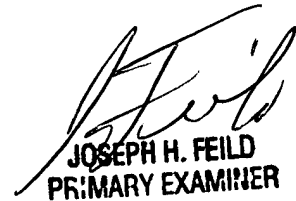
Conclusion

10.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Almari Yuan whose telephone number is (703) 305-5945. The

examiner can normally be reached on Mondays - Fridays (8:30am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph Feild can be reached on (703) 305-9792. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 305-4700.

JOSEPH H. FEILD
PRIMARY EXAMINER

AY
January 23, 2004